

## IN THE CLAIMS

### **Claims pending:**

- At time of the Action: 1-23, 25-43, 46 and 47
- After this Response: 1-23, 25-43, 46 and 47

**Currently Amended claims:** 1, 12, 32, 37, and 43

**Canceled or Withdrawn claims:** None

This listing of claims replaces all prior versions and listings:

1. (Currently Amended) A method comprising:

receiving a first broadcast data stream encoded using a first encoding format;

receiving a second broadcast data stream encoded using a second encoding format;

demultiplexing the first broadcast data stream while maintaining the first encoding format of the first broadcast data stream;

demultiplexing the second broadcast data stream while maintaining the second encoding format of the second broadcast data stream;

storing the first broadcast data stream on a storage device in the first encoding format;

storing the second broadcast data stream on the storage device in the second encoding format; and

time shifting the first and second broadcast data streams using, at least in part, the respective first and second encoding formats, wherein said time shifting is implemented

regardless of the encoding formats of the first and second broadcast data streams.

2. (Previously Presented) A method as recited in claim 1 wherein the first broadcast data stream is a digital data stream.

3. (Previously Presented) A method as recited in claim 1 wherein the first broadcast data stream may utilize any data format.

4. (Previously Presented) A method as recited in claim 1 wherein storing the first broadcast data stream on a storage device includes writing the first broadcast data stream to an application programming interface.

5. (Previously Presented) A method as recited in claim 1 further comprising retrieving the first broadcast data stream from the storage device.

6. (Previously Presented) A method as recited in claim 1 further comprising multiple systems retrieving the first broadcast data stream simultaneously.

7. (Previously Presented) A method as recited in claim 1 further comprising retrieving different portions of the first broadcast data stream simultaneously.

8. (Previously Presented) A method as recited in claim 1 wherein the first broadcast stream is stored on the storage device using a plurality of temporary files.

9. (Previously Presented) A method as recited in claim 1 wherein the first broadcast stream is stored on the storage device using a single temporary file.

10. (Previously Presented) A method as recited in claim 1 wherein the first broadcast stream is stored on the storage device using at least one permanent file.

11. (Original) One or more computer-readable memories containing a computer program that is executable by a processor to perform the method recited in claim 1.

12. (Currently Amended) A method comprising:  
receiving a first digital data stream encoded using a first encoding format;  
receiving a second digital stream encoded using a second encoding format;  
separating components of the first digital data stream;  
storing the components of the first digital data stream on a storage device,  
wherein the components are stored in the first encoding format;

receiving a command to play back the first digital data stream;  
retrieving at least one of the stored components of the first digital data stream  
from the storage device;

decoding the retrieved component; and

- 5 rendering the components of the first digital data stream in a manner that  
corresponds to the received play back command, wherein said rendering comprises  
rendering components of the first digital data stream and rendering components of the  
second digital stream using, at least in part, the respective first and second encoding  
formats, and wherein said rendering is implemented regardless of the encoding formats of  
10 the first and second digital data streams.

13. (Previously Presented) A method as recited in claim 12 further comprising:

receiving a command to pause play back of the first digital data stream; and

- 15 halting rendering of the components of the first digital data stream in response to  
the pause command.

14. (Original) A method as recited in claim 12 wherein the play back command  
is a play command.

- 20 15. (Original) A method as recited in claim 12 wherein the play back command  
is a rewind command.

16. (Original) A method as recited in claim 12 wherein the play back command  
is a fast forward command.

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17. (Original) A method as recited in claim 12 wherein the play back command  
is a seek command.

18. (Original) A method as recited in claim 12 wherein the play back command  
30 is a slow motion play command.

19. (Original) A method as recited in claim 12 wherein the play back command is a skip forward command.

20. (Original) A method as recited in claim 12 wherein the play back command  
5 is a skip backward command.

21. (Previously Presented) A method as recited in claim 12 wherein storing the components of the first digital data stream on a storage device includes writing the components of the first digital data stream to an application programming interface.  
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22. (Original) A method as recited in claim 12 wherein the storage device is a hard disk drive.

23. (Previously Presented) A method as recited in claim 12 wherein the storage  
15 device is a hard disk drive and components of the first digital data stream are stored in at least one temporary file or at least one permanent file on the hard disk drive.

24. (Canceled)

20 25. (Previously Presented) A method as recited in claim 12 wherein the first digital data stream may utilize any data format.

26. (Previously Presented) A method as recited in claim 12 wherein multiple  
25 devices retrieve the stored components of the first digital data stream simultaneously.

27. (Previously Presented) A method as recited in claim 12 wherein retrieving the stored components of the first digital data stream includes:

a first device retrieving data associated with a first data stream stored on the storage device; and

30 a second device simultaneously retrieving data associated with a second data stream stored on the storage device.

28. (Previously Presented) A method as recited in claim 12 wherein retrieving the stored components of the first digital data stream includes:

- a first device retrieving data from a first location in the first digital data stream;
- 5 and
- a second device simultaneously retrieving data from a second location in the first digital data stream.

29. (Previously Presented) A method as recited in claim 12 wherein separating  
10 components of the first digital data stream includes demultiplexing video data and audio data from the first digital data stream.

30. (Previously Presented) A method as recited in claim 12 wherein separating components of the first digital data stream includes demultiplexing Internet Protocol data  
15 from the first digital data stream.

31. (Original) One or more computer-readable memories containing a computer program that is executable by a processor to perform the method recited in claim 12.

20 32. (Currently Amended) A method comprising:  
receiving at least two broadcast data streams, one of the at least two broadcast streams utilizing a first encoding format and another of the at least two broadcast streams utilizing a second encoding format;  
separating components of one of the at least two broadcast streams;  
25 storing the components of one of the at least two broadcast streams on a storage device;  
retrieving the components of the stored one of the at least two broadcast streams from the storage device;  
decoding the retrieved components;  
30 rendering the components of one of the at least two broadcast streams; and

receiving a request to pause rendering of one of the at least two broadcast streams currently being rendered, in response to the pause request:

halting rendering of one of the at least two broadcast streams currently being rendered;

5 continuing to store the components of the halted one of the at least two broadcast streams on the storage device, wherein said rendering can render components of the at least two broadcast streams using, at least in part, the respective encoding format in which said at least two broadcast streams are encoded, and wherein said rendering is implemented regardless of the encoding  
10 formats of the at least two broadcast data streams.

33. (Previously Presented) A method as recited in claim 32 wherein one of the at least two broadcast streams is a television broadcast.

15 34. (Previously Presented) A method as recited in claim 32 wherein one of the at least two broadcast streams is a digital data stream.

35. (Previously Presented) A method as recited in claim 32 further comprising:  
receiving a request to resume rendering of the halted one of the at least two  
20 broadcast streams; and  
rendering the halted one of the at least two broadcast streams based on the request to resume rendering of one of the at least two broadcast streams.

25 36. (Original) One or more computer-readable memories containing a computer program that is executable by a processor to perform the method recited in claim 32.

37. (Currently Amended) One or more computer-readable media having stored thereon a computer program that, when executed by one or more processors, causes the one or more processors to:

30 separate the components of a first broadcast data stream encoded using a first encoding format;

separate the components of a second broadcast data stream encoded using a second encoding format;

store the components of the first and second broadcast data streams on a hard disk drive;

5 receive a request to play back the stored components of the first broadcast data stream;

retrieve the stored components of the first broadcast data stream from the hard disk drive;

decode the components of the first broadcast data stream; and

10 render the components of the first broadcast data stream, wherein components of the first and second broadcast data stream can be rendered using, at least in part, the respective encoding format in which a respective broadcast data stream is encoded, and wherein components of the first and second broadcast data stream can be rendered regardless of the encoding formats of the first and second broadcast data streams.

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38. (Previously Presented) One or more computer-readable media as recited in claim 37 wherein the one or more processors render the components of the first broadcast stream in a manner that corresponds to the received play back request.

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39. (Previously Presented) One or more computer-readable media as recited in claim 37 wherein the one or more processors render the components of the first broadcast stream and the second broadcast stream simultaneously.

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40. (Previously Presented) One or more computer-readable media as recited in claim 37 wherein the first broadcast data stream is a television broadcast.

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41. (Previously Presented) One or more computer-readable media as recited in claim 37 wherein the separate components of the first broadcast data stream are audio data and video data.

42. (Previously Presented) One or more computer-readable media as recited in claim 37 wherein the separate components of the first broadcast data stream include Internet Protocol data.

5           43. (Currently Amended) An apparatus comprising:

          a capture module configured to capture a first data stream and a second data stream, wherein the first data stream is represented by a first data format and the second data stream is represented by a second data format, and wherein the first data stream is encoded using a first encoding format and the second data stream is encoded using a  
10       second encoding format;

          a data storage module configured to store the captured data streams in their encoded formats; and

          a rendering module configured to decode the data streams and to render the data streams from the data stored on the data storage module, wherein the rendering module is  
15       configured to render a data stream using, at least in part, a data stream's encoded format, and wherein the rendering module is configured to render a data stream regardless of the encoding format of the data stream.

          44. (Canceled)

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          45. (Canceled)

25           46. (Previously Presented) The apparatus of claim 43 wherein the capture module is further configured to separate the components of the data streams and the data storage module is further configured to store each of the separate components of the data streams.

          47. (Original) The apparatus of claim 43 wherein the data storage module includes at least one hard disk drive.

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